

ANCHORAGE AMATEUR RADIO CLUB NEWS

APRIL 29, 1972

VOL. 1, NO. 4

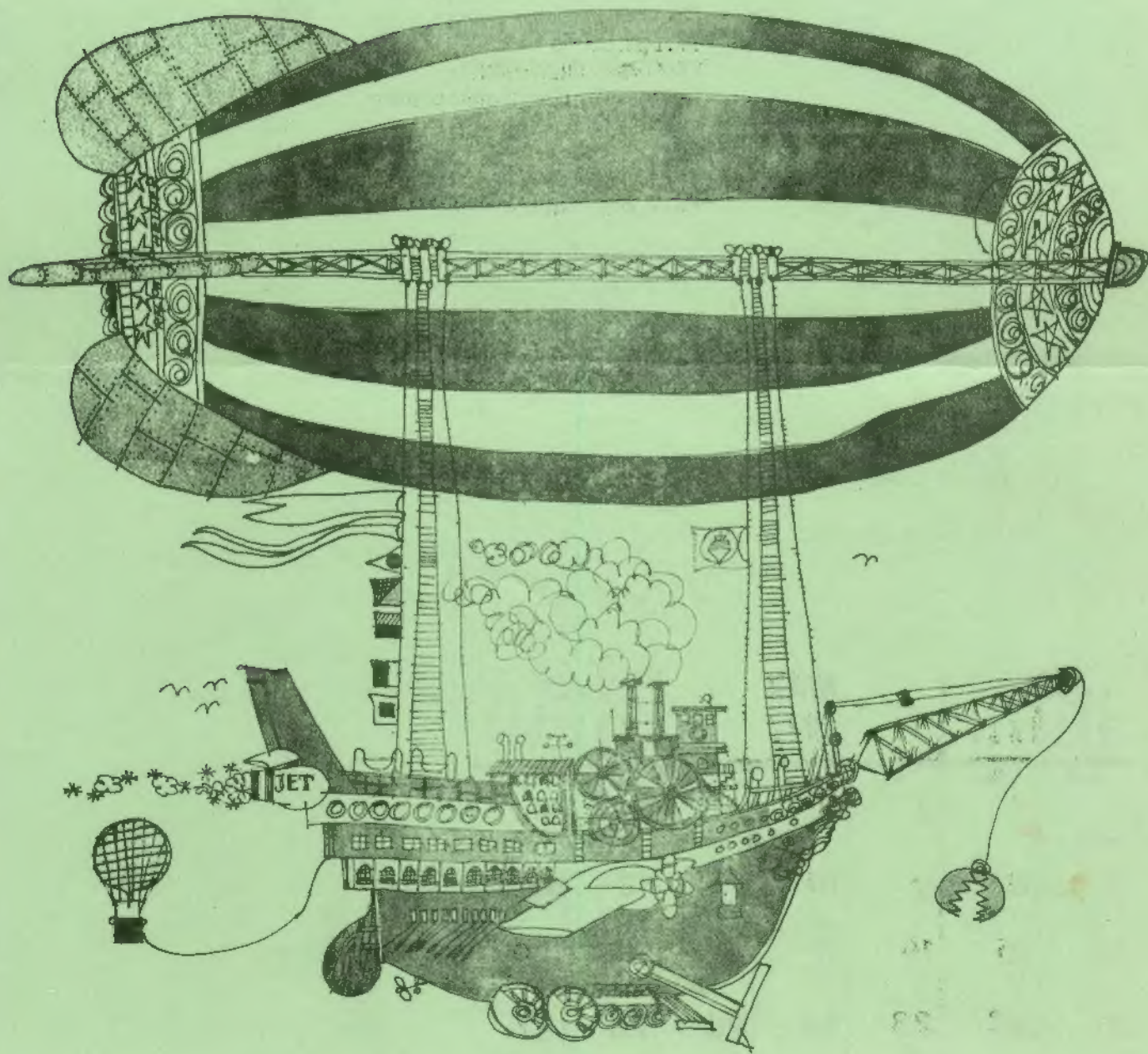


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MAY 1972						
SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
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FIELD DAY

By: Wilse Morgan, W6PVF
344-1257

Field Day is quite a distance away, but we should start to get ready now. We will form a Field Day Committee to select a location, gather equipment and recruit people to man the Field Day site. The Ladies will prepare a nice picnic for us to enjoy after it is all over. Lots of work in this project to do it right. If you plan to help, please let it be known before the last day before Field Day.

"73's" W6PVF

OUR COVER

Our cover this month is from the Alaska Construction & Oil Report of July, 1971

BOARD OF DIRECTORS

The Board of Directors of the Anchorage Amateur Radio Club will meet Thursday, May 4, 1972 at the home of the President, Kenneth Koestler, 2019 Sunrise Drive, at 7:30 p.m.

AARCAARCAARC
ARCAARCAARCA
RCAARCAARCAA
CAARCAARCAAR

KL7HEQ wrote a very nice column but left it nameless - we'll let you decide for yourselves.

BY: KL7HEQ, Russ Hughes
333-1268

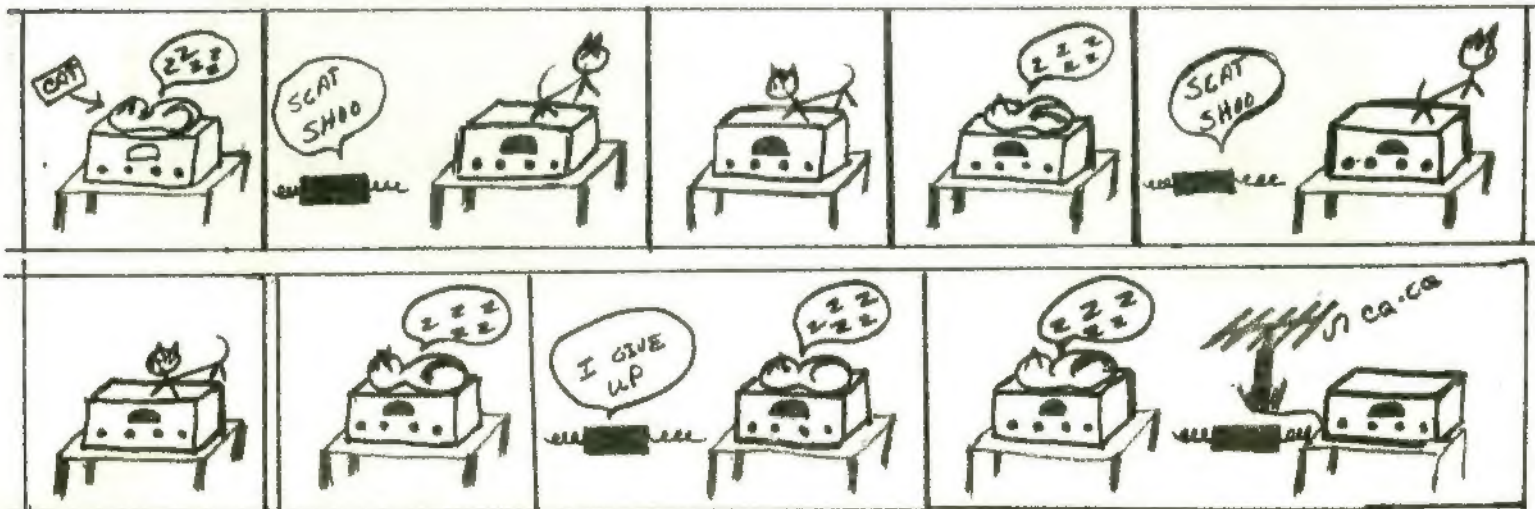
You say that now that you're all set up to monitor 146.94; that they are now using 146.76 also that you would like to monitor both, but two receivers are out of the question? Did you ever watch one of those scanning monitor receivers with the blinking lights? Here is how you can make your present receiver monitor both channels. The first prerequisite is that your present receiver must have the ability to operate on both channels. The second prerequisite is that the channel change is made by applying power to, or grounding a connection to separate oscillators or frequency change relays. One of these methods are used in most of the commercial two way FM equipment in use by amateurs.

The thingamabobolater that does the scanning uses four Fairchild 914 integrated circuits. These are dual two input gates; and have eight leads, look like a bud and contain four transistors, six resistors.

The block diagram is illustrated in Figure One. The clock is a free running multivibrator that produces a square wave at it's output. This square wave is applied to one input of the gate.

The Schmidt trigger senses a voltage change from the squelch circuit of the receiver and at some receiver input level it will change state causing the output to go from about zero volts to about three volts. This output from the Schmidt trigger is the other input to the gate and is the gate control.

-----continued on Page 3.-----



In place of the interview this month we are running a feature article from the Coast Guard News.

HAM RADIO OPERATORS BRING COAST GUARDSMEN CLOSER TO HOME

Contributed by: Art Clark, KL7HEK
333-9987

closer to their family and friends while being so far away.

The Coast Guardsman arrange to make a radio transmission in the "Ham Shack" on board ship. The ham operator knows when civilian ham operators will be monitoring calls and their call letters. He places the call and the civilian ham operator patches the call on his telephone directly to the sailor's home.

.. John "Long John" Iglinsky of Wilmington (K6TLU) has been providing phone patching service to Coast Guardsmen for many years.

It isn't unusual for him to put in as many as 60 hours per week relaying messages for Coast Guardsmen. He is one of many ham operators on the West Coast who devote their time and effort assisting Coast Guardsmen and their families.

Underway, there just aren't any telephones one can use, but with the help of "Long John" and many more equally devoted private citizens ashore, many calls are

-----Continued on Page 4-----

LONG BEACH, Calif., Oct 27---If you had a magic lantern on board a Coast Guard Cutter which was out to sea thousands of miles away from your home, for several months, what would you be wish-many as 60 hours per week relaying messages ing as you rubbed your lantern to make the genie for Coast Guardsmen. He is one of many ham appear and grant your every wish? Probably to be operators on the West Coast who devote their with your loved ones or be able to speak with time and effort assisting Coast Guardsmen them.

Civilian Amateur Radio Operators (Hams) around the world have been the genies for many C Coast Guardsmen in recent years. These people have spent countless hours of their valuable time assisting and helping coast Guardsmen feel



John "LONG JOHN" Iglinsky of Wilmington, California, K6TLU, arranges to make a phone patch for a Coast Guardsman who is aboard ship far out in the Pacific. (OFFICIAL U.S. COAST GUARD PHOTO) (10-23-70).



ANCHORAGE, ALASKA

3100 MT. VIEW DRIVE Phone 277-5113
260 SEWARD HIGHWAY 344-7711

MT. VIEW, ALASKA 99508

Bandscanner: By Russ Hughes

Continued from Page 1 -----

As long as there is no signal being received by the receiver, the clock square wave will pass through the gate. As soon as the receiver senses a signal of sufficient amplitude, the Schmidt trigger will change its state and shut off the clock square wave.

The output of the gate is connected to the two inputs of the memory, which is connected as a set reset flip flop. As long as the gate passes the clock signal the memory will flip flop along in unison with the clock signal. If the receiver senses a signal the gate shuts off the clock signal and the memory then holds in whatever position it was in when the receiver sensed the signal. This is where the term memory comes in, it remembers where it was at and doesn't forget until the receiver signal stops. When the receiver signal stops and Schmidt trigger changes state again and the gate passes the clock signal again and the whole thing goes back searching for that message from Garcia.

The outputs from the memory consists of alternating on and off signals that are exactly out of phase. These are used to control the receiver frequency determining functions, and that is it in a nutshell.

Now for a few particulars. The clock is controlled by the two resistors and capacitors in the clock circuit. These provide the time constant for the feed back circuit and should be matched to provide a nice square wave output from the clock. If they are not matched, then the receiver will spend more time on one frequency than the other. Try about .47 mfd or so for the capacitors and somewhere between 10 and 100,000 ohms for the resistors. The end result should be a square wave with a period

-----Continued on Page 6-----

MEMBERSHIP

By Beth Clark, KL7HEJ
333-9987

We now have 124 club members. Our meeting attendance is getting better all the time. Those of you who were at the meeting at the La Hacienda April 21st know how much fun it is when that many Hams get together for a social evening. For those of you who weren't there, there just isn't any way to tell you how much fun you missed. The food was good, and the company left

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ANCHORAGE, ALASKA
99504
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We Will ship anyplace nothing to be desired. We all had a ball. The later the evening got the livelier the entertainment was!!! There were 42 or more there--Let's make it twice that many next time. It wouldn't be at all hard to do! Out-of-town guests at this meeting were K7EJGE - Al from St. Paul Island, and KL7GNG - Tom from Fairbanks - and both of them joined the club. I know you all join me in thanking them for joining us, both that evening and the club. Several South 48 Hams have also joined the club and are getting the Club paper, and enjoying it from all reports. Just think how large our Club would be if each family would bring in one

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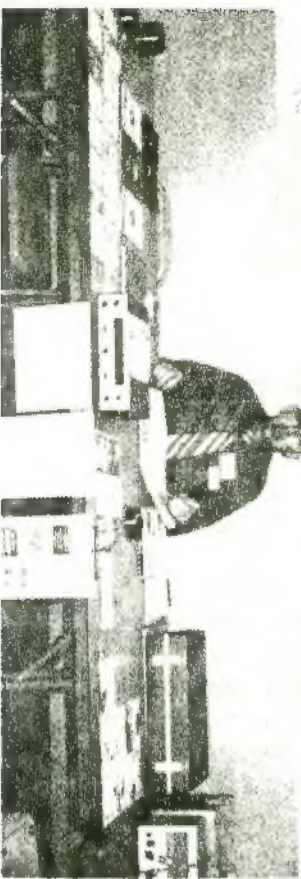
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CBC
CENTRE



ANCHORAGE AMATEUR RADIO CLUB INFORMATION

-MEMBERSHIP-

Chair held by: Beth Clark, KL7HEJ
333-9987

RATES:

Associates ----- \$3.00/yr
Regular ----- 6.00/yr
Family (2 or more) - 8.00/yr

-ADVERTISING-

Membership: One ad of non-commercial nature, approximately four lines, straight text typing, per month included in membership fee.

Commercial:

One ad, 2"x3", per month - \$5.00
(straight text typing)

One ad, 2"x3", 6 month duration,
\$4.00 per month.

(straight text typing)

One ad, 2"x3", 12 month duration,
\$3.00 per month.

(straight text typing)

Vinyl stencil ads available only
on yearly basis. (pictures,
fancy type style, etc.)

-MEETINGS-

A business meeting is held the first friday of each month in the Z.J. Loussac Library basement at 8:00 p.m.

The second meeting of the month is held on the third friday; location is determined in advance and the membership is notified.

-POLICY STATEMENT-

Opinions expressed in this paper do not necessarily reflect the official or unofficial opinion of the Club.

-ARTICLES FOR PAPER-

Anchorage Amateur Radio Club News
Post Office Box 1987
Anchorage, Alaska 99501

-OFFICERS-

President -----	Kenneth Koestler -----	KL7BZO
Vice-President -----	Jimmie Tvrdy -----	KL7CDG
Secretary -----	Liz Tvrdy -----	KL7CDG/xyl
Treasurer -----	Fred Healy -----	KL7AZH
Activities Manager ---	Wilse Morgan -----	W6PVF/KL7
Directors -----	Beth Clark -----	KL7HEJ
	Palmer Forsmoe -----	KL7APV
	Charles Wayer -----	KL7HG
	(KL7AA Custodian)	

APPRECIATION

By: Wilse Morgan, W6PVF

I would like to extend my personal thanks to YUKON RADIO SUPPLY for their effort to make our FLEA MARKET a success. The fine looking gentleman in the picture is Ted, KL7CAT.



You will hear Ted using our fine repeater now, Thanks to the efforts of himself and KL7CDG.

CLASSES

Contact Ron Swider, 752-6219 for information on Advanced classes.

AARCNAARCNAARCNA
 ARCNAARCNAARCNA
 RCNAARDNAARCNA

HOSPITALITY COMMITTEE

We are forming a HOSPITALITY COMMITTEE for the purpose of old and new members to become acquainted with each other.

The Committee is chaired by Edith Koestler, 279-4803; she is requesting volunteers to serve on a rotating basis for monthly eyeball QSO's with other members in their QTH's.

For further information please contact Edie as above.

Bandscanner: By Russ Hughes, KL7HEQ

Continued from Page 3-----

of about one second. A little faster or slower will not make too much difference.

The output of the memory can drive a small sensitive relay directly but the use of a relay driver a light can be connected to indicate which channel is being listened to at any given time.

The Schmidt trigger is to protect the 914 IC from overvoltage. The resistor is to limit the current through the zener diode. The schmidt trigger can be eliminated providing that there is a suitable voltage change that can be derived from the receiver squelch circuit. By suitable it should change from zero to about three volts with a very small signal, but not go over much more than three volts at any signal level. A contact on a squelch relay (cor) contact can also be used to operate the gate directly. Just apply three volts through a 1000 Ohm resistor to the input to the gate and short the input to ground with the relay contact. Should the output of the Schmidt trigger be the wrong polarity, use the output from Pin 7 of the 10 to drive the gate 10. Use the highest value of "R" at the input of the Schmidt trigger that will give dependable switching action, which will reduce the loading on the receiver circuit that is driving the Schmidt trigger. The squelch control voltage should be derived from a low impedance source in the receiver like the cathode or emitter resistor of the squelch D.C. amplifier.

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Contributed by: KL7BTP, Kermit Siefert

W7EHO, Ray Davies of Aberdeen, Washington has served the State of Alaska as net control for the "C.D. Roll Call" and the Alaska Pacific Net and W7HJU Ed Lamb of Beaverton, Oregon also acting net control for the nets have been most appreciated. -They both have been punctual and while they have served - so faithfully. We want to extend thanks to them.



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2. Complete wig care
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279-7023

FROM THE PRESIDENT:

To all members of the Anchorage Amateur Radio Club, I think this is a test that we all can be proud, that we all took part in making this radio club one of the finest in the "Far North". Others said it couldn't be done -- but we all know better, the new and the old are back in the club. With the help of Beth, KL7HEJ, membership chair and alot of others this is going to keep on growing with lots of good activities from Wilse, W6PVF/KL7.

There still is more work to be done and there's one thing that's better yet, we are all ready and willing to put forth the needed help. It's real rewarding to see that the Alaskan amateur is still behind something that is good. May I take this time to thank each and every one of you for all the time and effort each of you have put forth in making this possible. The Flea Mart was a real success just because amateurs were willing to work together as a team. I sure do want to thank Larry, WL7HJR and the band for their time on Saturday evening.

The time Liz and Jim Tvrdy have put in getting the club records in order, THANKS, this is a job that had to be done and they have put many hours in it! A JOB WELL DONE!

-----Continued Page 9-----

MEMBERSHIP: By Beth Clark

Continued from Page 3-----

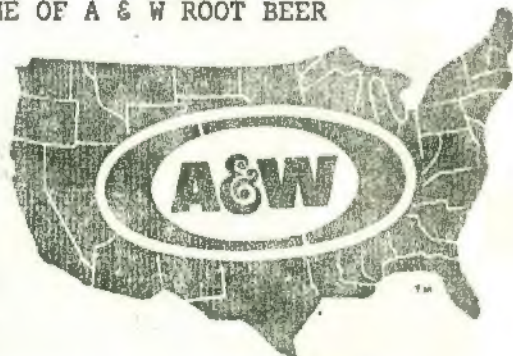
new member!!! We are hitting for 200 members by the end of the year--Why not make that before we secure for the summer? That would really give us something to celebrate at our last social meeting. We can do it if we all get in and try. So let's get out in full force and show how large a club Anchorage can put together, and have a ball doing it!!!!

. rpt.

By: Wilse Morgan, W6PVF 344-1257

It is all history now, but for those who might not have heard the CAP received permission from the air force to conduct tests utilizing the White Alice System to connect the repeater here on Ft. Richardson with the one that is CAP member owned at Pedro Dome. This will take place in the near future. The hours of operation will be in the evening time after 1800 for three hours. The CAP will utilize the connection network for approximately 30 minutes of the three hour period. The other two and one half hours will be for the use of the amateur radio community.

A & W DRIVE INN
3047 Mt. View Drive
272-5960
HOME OF A & W ROOT BEER





One for
Myself
Yes



* * * * *

Bandscanner: By Russ Hughes, KL7HEQ

YUKON RADIO SUPPLY

Continued from Page 6-----

The 914 IC will operate on as low as 1.5 volts, works real fine on 4.9 volts, no problem on 6.9 volts, but be careful with 12.9 volts. Because of the drain (current) the use of flash-light batteries are not recommended. A suggested power supply is shown in Figure 5.

The 914 IC cost about \$1.00 or so. They almost always work, but like any semiconductor they can be rendered kaput by too high voltage, large input spikes and so on.

The figures show the internal connections of the 914 IC the transistors are like 2N708 types and have a FT of about 450 MHZ. The base resistors are 450 ohms and the collector resistors are 640 ohms. Pin 8 is located by the flat spot on the case and the pins are numbered counterclockwise looking from the bottom.

Well, have fun with it and it does work.

NOVICE CLASSES

ALL PERSONS INTERESTED IN NOVICE CLASSES please attend Club meeting (for head count) this coming Friday night, May 5, 1972.

The Anchorage Amateur Radio Club is offering a twelve week course beginning May 11, 1972. Registration will be at the home of Kenneth Koestler, KL7BZO 2019 Sunrise Drive at 7:30 Alaska Daylight savings time..... One of the instructors is Niel Zimmerman.----- There will be a charge for books and materials.

Antennas

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FROM THE PRESIDENT:

Many thanks to our editor, Peggy Wolfington. The job she has with the club is something a lot of us would not be able to do as there are many hours putting out this paper, and Peggy is doing a real fine job.

Our activities manager is really working hard to make the activities worthwhile so let's all support Wilse, W6PVF/KL7.

Sure will do everything I can to help each and everyone of you, enjoy your club by taking part in the activities.

We the members sure want to thank all the commercial businesses for all they have done for the Anchorage Amateur Radio Club for their support and advertising in our club paper.

All the time that it took in helping with the Flea Mart; without their help it would never have been the success it was.

I have been appointed assistant Director of ARRL (Northwest Division) and will work to make sure all amateurs in the State of Alaska be heard. I've asked Mr. Thurston to let Alaska have two more SCM's in the state as one cannot do justice to all amateurs in this large state of ours.

73's, KL7BZO, Ken Koestler

The most difficult meal for the average housewife to get is dinner out.

Contributed by: Bob Brown, WØYHI/KL7

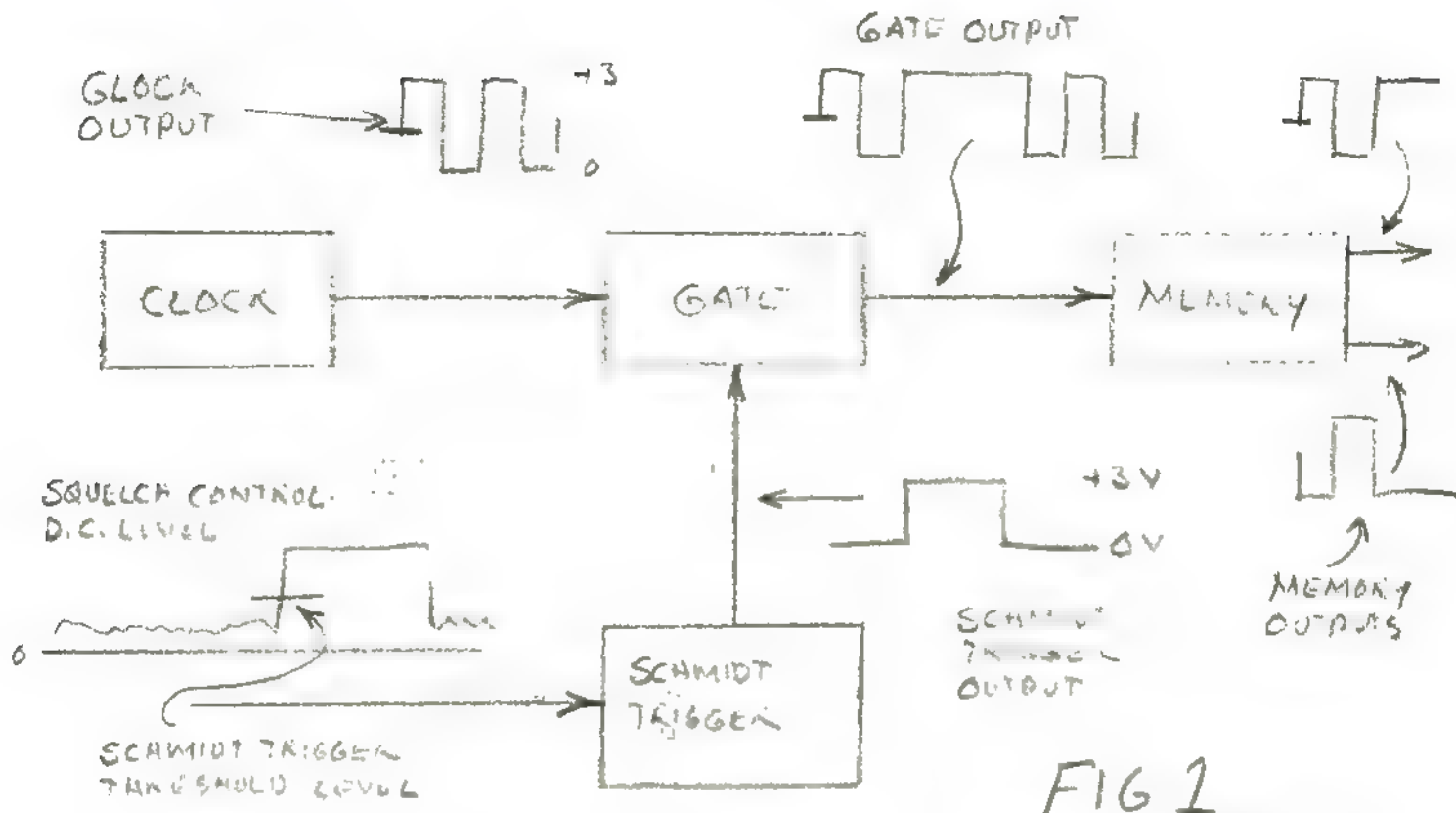


FIG 1

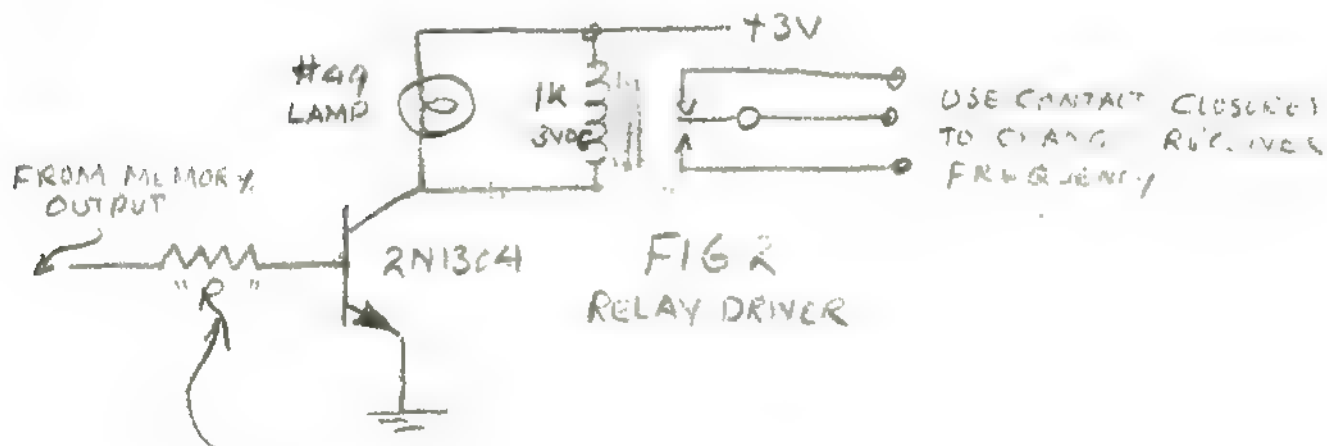


FIG 2
RELAY DRIVER

ADJUST VALUE
OF "R" TO
PROVIDE AMPL
LIGHT OUTPUT
AND GOOD RELAY
OPERATING

ACTIVITIES

By: Wilse Morgan, W6PVF/KL7

I wish to thank Russ, KL7HEQ, for taking over from John, KL7GHX, while he runs off to Iran. Russ will be keeping us all up to date on the Amateur Satellite launch. Remember, in order to be eligible for the \$50.00 prize, you have to be registered. There is a \$2.00 registration fee for this. If you have been gearing up for this, please call Russ and let him know what you are doing so he can put it in his monthly column seen in this paper. His number is 333-1268.

We will be participating in the WALK FOR HOPE. Details are on Page 13, check them please.

Our Six meter FM is coming right along. KL7CDG has ordered the xtals for his rig and mine. He and I will have the same type base stations. They are military surplus and run about 100 watts. Also KL7FSF, KL7HFW and KL7HEQ are planning on joining Jim and I on six meter FM. If you have an interest in this, please let Jim know. If you think you will have a TVI problem we feel sure that it can be taken care of with a strip line filter. The frequency that we will be on is 52.525 MC.

"SOUND CELLAR" is TEAM ELECTRONICS new Hi-Fi room, featuring sounds from popular brands, such as Altec, Sansui, JBL, Kenwood, Scott, Teac, Panasonic, Koss, Ampex, Dual and more. Save at Team's complete electronics center - 404 E. Fireweed.

Contributed by Kermit Siefert

Two Hams hooked up for a phone patch and Ham #1 said "Where do you want to go?"
Ham #2 replied "New Orleans".

POTLATCH

The Anchorage Amateur Radio Club is sponsoring a POTLATCH for the social meeting of the month, May 19.

Let's pack up the kids, XYL and even mother-in-laws and get out and eat.

We might try to go through the alphabet for food distribution, such as:

A-H Hot Dish (Spaghetti, beans, meatloaf, etc.)

I-P Potato, macaroni, green and fruit salads.

O-Z Desserts: Pies & cakes we all love.

Single fellows: - rolls and butter.

To cover the expense of the hall we need to pitch in \$2.00 per family - we (the club) will furnish paper plates, cups, plastic forks, knives & spoons, coffee and kool-aid.

Willow Park Community Hall at 9th & Fairbanks

For more information call:

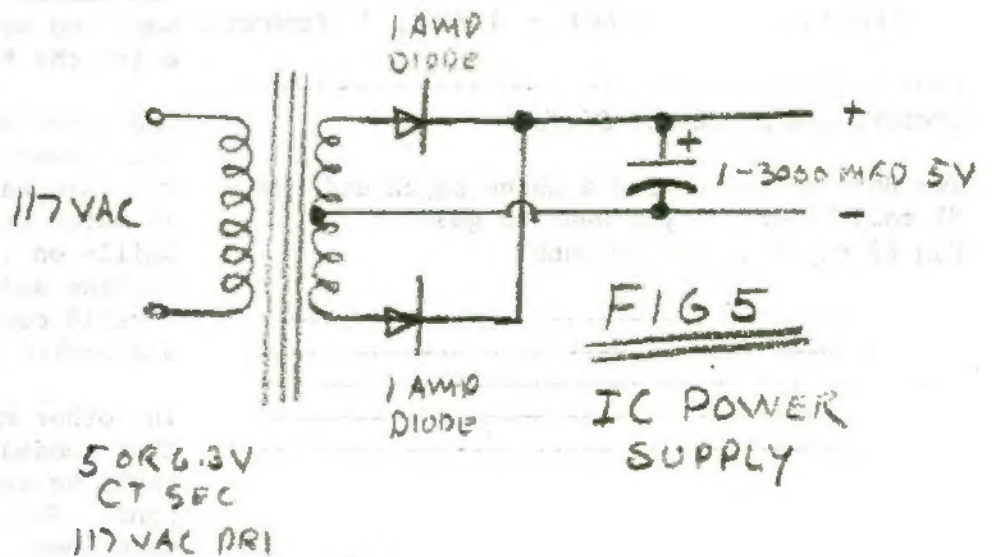
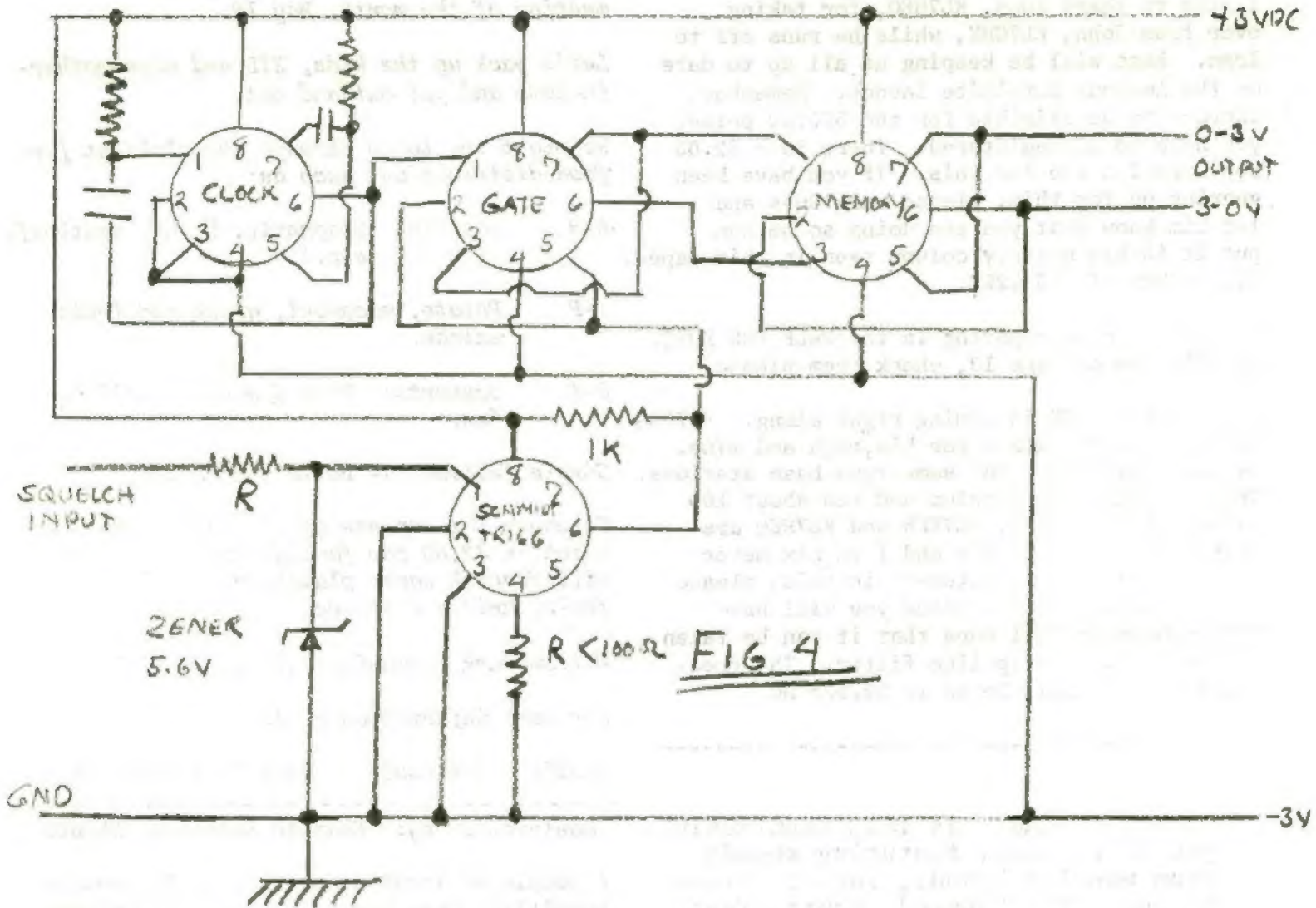
Marlie - 272-0206 or Edie - 279-4803

Contributed by: Kenneth Koestler, KL7BZO

A couple of local amateurs were discussing conditions when one said, "say I heard you work the 6D4EB on twenty meters last week and later...about ten minutes later, you went and worked him again; what were you doing the first time, practicing?"

The other amateur hemmed about a bit and then lowering his voice said, "Well, it was this way, I loaded up the rig into my 75 meter dipole by mistake and worked Emilio on twenty meters, then I noticed my mistake and began to wonder if it would be a valid contact, so I switched to the beam and worked him again to make sure."

The other amateur thought for a bit and then nodded his head. "You were probably right he said, your antenna was out of the band. Son-of-a-gun, that's the way it goes sometimes."



CQ CQ DE WL7HJR

WALK FOR HOPE

ALL -- ---...- .. -.-. . . .

By: Wilse Morgan, W6PVF/KL7

The Rare DX members have been extremely busy in the Ham Radio apprentice program. Some new individuals on the sets are: WL7HKI was (KL7COP at one time), WL7HKL and WL7HKM (Ketchikan area). Welcome!

Many of the older Hams should find a great deal of fun in working the new apprentices. They certainly will find a variety of sounds, QRM and varied speeds to contend with. Should they be rusty on key work, we give them an opportunity to regain proficiency (?) and they are undeniably of great assistance to us.

The past two months I have had the pleasure of working several older Hams, some of whom have 40+ years in code work. Their patience, constructive criticism and unfailing courtesy to a raw beginner is tops. It must be boring for an OT to RWS but they have done so graciously and it is an immeasurable help to me.

The letters I have received contain much vital information and tips, which I, a novice, do not know. It is a real privilege to be able to draw from this store of knowledgeable experience. I heartily recommend correspondence. To those of you who are contacting a novice, my personal gratitude and TNX. I know how much help you are!

I hear the Anchorage Club is planning a new program consisting of airing code practice from zero to thirty w.p.m. for the novice. This would be tremendous from our side of the fence and we sincerely hope it goes.

Many of my group have indicated to me they would like to join Ham Clubs and participate in activities when they find them compatible. However, they are reluctant to do so, fearing club affairs soon would seriously hamper study and practice time. Many a novice is still living home a little though time to work at Hamming. If clubs wish to increase membership, I respectfully submit they recall their own beginning. "Apprenticeship programs are learning situations and all functions should be geared toward the novice becoming a general."

The MARS program on Elmendorf will operate classes in Theory and Code for those interested. Class size must be at least five (5) individuals. Classes are conducted without cost, except for books, which one needs anyway. Being presently enrolled in a class, I can

The people involved with the Walk for Hope have decided that they would like us to help the. The CB club will furnish all the communication for the 18 check points. Our obligation will be to furnish radio equipped patrol car for the officials at the walk. Of course, we will use our own repeater and our 2 meter FM mobiles. If you have been contacted for this activity, please call KL7HFM, 272-6650 or myself.

The walk for Hope will take place on the sixth of May, the first Saturday of the month.

The total number of hours involved are about 16. We will field three or four cars for a three hour watch. This way no one will have to stay out there for too long a period, and the total time will be covered. This will give us a good chance for some more public service recognition.

Wilse, W6PVF/KL7 753-5109, 344-1257
272-0206

state the instruction is excellent - well worth an effort to attend. Mr. Neil Zimmerman, the able State Director of MARS can answer any questions you novices may have concerning these classes.

Hope to CU AGN and for a few more weeks
PLS QRS! HI! HI!

73's 88's AR CL
Larry L. Juhnke, WL7HJR

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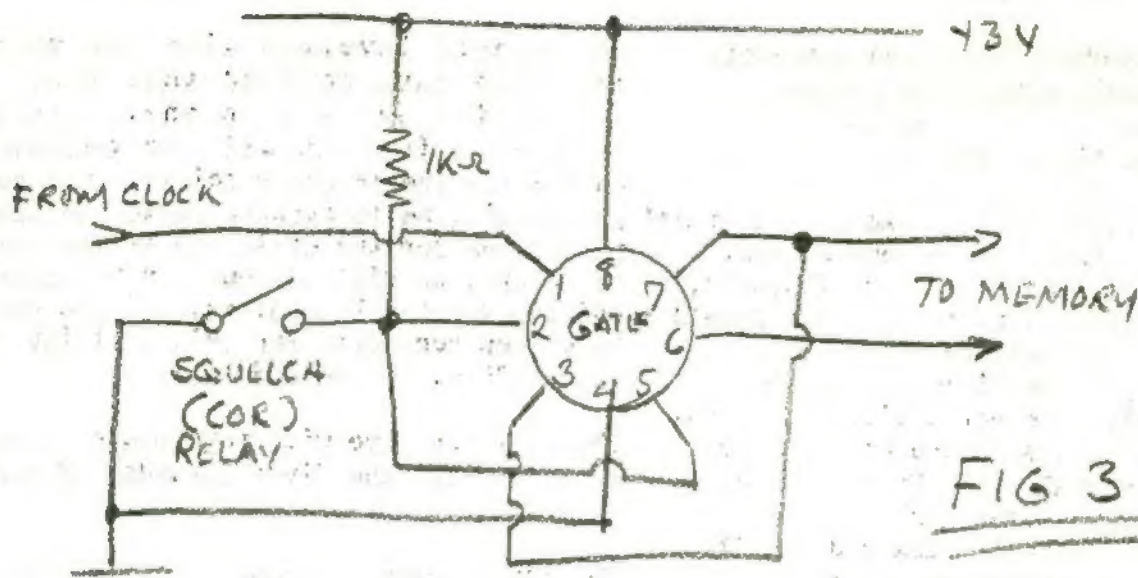


FIG 3

ALTERNATE GATE
CIRCUIT WITHOUT
SCHMITT TRIGGER

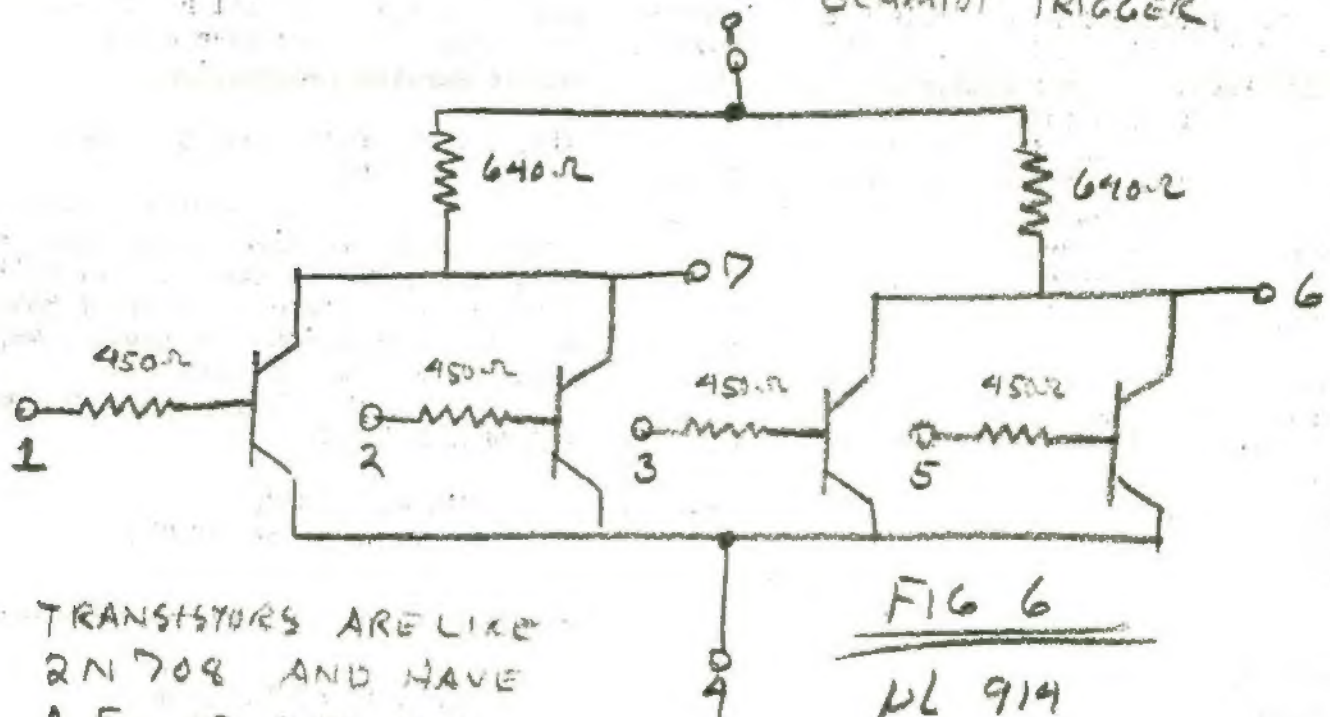


FIG 6

PL 914
INTERNAL
CONNECTIONS

TRANSISTORS ARE LIKE
2N 708 AND HAVE
A F_T OF 450 MCS.